

1001 Boulders Parkway Suite 300 Richmond, VA 23225 P 804.200.6500 F 804.560.1016 www.timmons.com

September 27, 2016

Virginia Department of Environmental Quality Office of Environmental Impact Review ATTN: Ms. Bettina Sullivan 629 East Main Street – Room 631 Richmond, Virginia 23219

RE: Federal Consistency Certification for the proposed Curles Neck Sand and Gravel Mine, Henrico County, Virginia (COE # NAO-2016-1228)

Dear Ms. Sullivan:

This document provides the Commonwealth of Virginia with Curles Neck Properties, LLC. Consistency Certification and necessary data and information under Coastal Zone Management Act (CZMA) §307(c)(3)(A) and 15 CFR Part 930, subpart D, for the proposed Curles Neck Sand and Gravel Mine (Project).

Curles Neck Properties, LLC. certifies that the proposed activity complies with the enforceable policies of Virginia's Coastal Zone Management Program (VCP) and will be conducted in a manner consistent with the VCP.

Project Applicant and Contact

Curles Neck Properties, LLC. ATTN: Jerry Cable 701 E. Byrd St. Richmond, VA 23219

Authorization Permits Sought

The Applicant anticipates pursuing a Virginia Department of Environmental Quality (DEQ) Virginia Water Permit and an Army Corps of Engineers (COE) Section 404 Individual Permit to support the development of the Project.

Project Description

Curles Neck Properties, LLC, is proposing mining operations to extract the mineral reserves within the Curles Neck Farm (Site). This is the primary purpose of this project. Sand and gravel has been mined adjacent to this parcel, by several companies, since the early 1950's, and this is one of three areas containing reserves that have yet to be mined. The proposed Project includes the construction of a sand and gravel pit that will provide construction materials for construction activities (i.e. concrete, Portland cement, road beds, etc.). The proposed site is of sufficient size, possesses quality sand and stone deposit, and exhibits direct access to the James River and local road networks, without necessitating any further onsite marine facility or

offsite road improvements, which could be a source of related additional environmental effects contributed to creating a new mining site.

The sand and gravel reserves will be extracted using a phased approach to open pit mining. Preparing the site for mining will include removing the top-soil and vegetation to a designated overburden storage area, where it can be stored and used at a later date for reclamation purposes. Mining will begin in cell '1' at the northernmost boundary and continue in a southerly direction. The mining plan is designed to be its own sediment trap or E&S structure, where each cell will capture the stormwater run-off from the previous cell. The reclamation will also occur in a phased approach, where only a limited number of cells will be open at time, and reclamation will occur concurrently with the development of new cells. Each cell or "lift" is approximately 40-50 foot drop in elevation, where the reclamation will result in a large pond and agricultural fields located to the center and western extent of the site, and reclaiming original contours to the extent practicable in areas on the western extent of the site, where potentially eligible historic buildings are located.

Site Location

Curles Neck Farms is located just south of Richmond Virginia, in Henrico County, Virginia, and is bound on the west by the James River (see attached <u>Figure 1</u>). Because transportation costs are often a limiting factor, the Mine's location, adjacent to I-95 and the James River, is ideally situated to supply sand and gravel for construction activities via barge to the Tidewater Region of Virginia or in Richmond Area via trucks through the existing roadways (i.e. Route 5, I-295, etc.). It is located within the Lower James watershed (HUC 02080206) and is drained by the James River and unnamed tributaries to the James River. The property is located in the Coastal Plain Physiographic Province.

Site Description

The majority of the Site consists of agriculture fields with various farm structures and a family dwelling located within the site limits. Three ponds that are the result of previous mining activities are located in the southeast corner of the Site and offsite to the north and northwest of the project. The Site is bound by the James River to the west, Curles Neck Road to the north and east, and agricultural fields to the south.

The adjacent properties were involved in mining operations and have served the local market since the early 1950's, most recently by Vulcan Materials, which ceased extraction in 2008. The project area, comprises approximately 132 acres. The project area is surrounded by reclaimed mining areas, which consist of a combination of active agricultural fields, wildlife habitat areas, and reclaimed ponds, which are used for irrigation and other wildlife uses. Accessing the mineral reserves within the central portion of the Farm is the primary purpose of this project. In addition, the project has been designed to accommodate the secondary purpose of the project; which is to create productive farm fields and preserve the aesthetics of the historic site

Due to the central location of jurisdictional waters and wetlands within the project area, impacts could not be avoided. The applicant has proposed the Preferred Alternative as the Least Environmentally Damaging Practicable Alternative (LEDPA), as the impacts to jurisdictional areas least when compared to other alternatives and are unavoidable. It is important to note that this is a currently active farm and the wetlands in this area have been manipulated as a result of long standing farming activities and pond creation. A majority of the proposed impacts are to PEM wetlands and are within the footprint of previously drained ponds. The location of

impacts to jurisdictional waters of the U.S. identified within the Project limits are shown on the attached Waters of the U.S. Impacts Map (<u>Figure 3</u>: <u>Jurisdictional Waters of the U.S. Impacts Map – Sheets 1 - 9</u>). Therefore, to accomplish the goals of the Project, a total of area of 29,027 square feet (0.67 acre) of unavoidable permanent impacts to wetlands and 1,490 linear feet of impacts to an intermittent (R4) stream channel is required.

Review of Coastal Resources

As stipulated by VCP, Timmons Group has reviewed the following coastal resources for potential impact:

Tidal and Non-tidal Wetland Management – The jurisdictional waters of the US, including both wetlands and streams, were confirmed by the United States Army Corps Engineers (COE) on July 19, 2016 (NAO-2016-1228). A map illustrating the jurisdictional waters of the US boundaries identified onsite are shown on the attached Preliminary Water of the U.S.. Delineation Map. Wetlands identified onsite consisted of palustrine emergent (PEM) wetlands, palustrine forested (PFO) wetlands, palustrine scrub shrub (PSS) wetlands, isolated palustrine open water (POW), perennial streams, and intermittent streams. No tidal wetlands were identified onsite.

The development of the Project will require unavoidable permanent impacts to 29,027 square feet (0.67 acre) of unavoidable permanent impacts to wetlands and 1,490 linear feet of impacts to an intermittent (R4) stream channel is required. A map showing the location of the jurisdictional impacts is shown on the attached <u>Figure 3</u>: <u>Jurisdictional Waters of the U.S. Impacts Map</u>.

Detailed information concerning Curles Neck exploration on specific properties is proprietary and confidential business information. The proposed site is of sufficient size, possesses quality reserves of extractable mineral deposits, and has direct access to the James River and a local road network, without necessitating any further offsite road improvements. The amount of wetland and stream affected by the proposed project is small, in comparison to the alternate sites, and will be mitigated as outlined in other sections of this document. Conversely, the amount of land disturbance required to develop a similar project at a green field location would likely be orders of magnitude more due to the need for entirely new onsite and offsite infrastructure at a new and separate mine site, when compared to what is required to re-open an existing mine in the same manner.

Curles Neck Mine has implemented measures in the design of the mining activities to avoid and minimize extraction of mineral resources in wetlands and streams to the greatest extent practicable. High quality waters of the U.S. (e.g. James River), including emergent wetlands to the west of the pit will be avoided by the proposed mineral extraction process targeting resources in the central portion of the Site. The avoided areas include approximately 2,172 linear feet of the James River, 793 linear feet of intermittent stream, 2.05 acres of palustrine emergent (PEM) wetland, and a 10+ acre pond in the southeast corner of the property.

 The avoided upgradient section of stream that enters the northeastern end of the project area will feed into a man-made diversion channel and pipe conveyance system. This ditch/pipe system will direct base flow and storm flow to the west around the future pit area to an unnamed tributary to the James River. Due to the central location of the wetlands and Waters within the project area, mining
activities within this tributary and its headwater wetlands will require mitigation. The
following table provides a summary of the effected waters of the U.S:

Impact Site	Wetland/Water Impact Decription*		Wetland Impact Area Stream Impact Area				Stream Impact Area b				Apprx. Vol. of Fill below OHW	Cowardin Classification of Impacted Wetland/Water	Stream	Drainage Area	DEQ Classification of Impacted Resource
(1,2, etc.)		s.f.	a.c.	L	W	s.f.	c.y.	(PEM, PSS, etc.)	c.f.s.	sq. mile					
1	EX,NT,PE,V	1,060	0.024					PEM	n/a	n/a	VII				
2	EX,NT,PE,V	5,536	0.127					PEM	n/a	n/a	VII				
3	EX,NT,PE, IN			138	2	276		R4	<5	<5	III				
4	EX,NT,PE,V	13,266	0.305					PEM	n/a	n/a	VII				
5	EX,NT,PE,V	588	0.013					PFO	n/a	n/a	VII				
6	EX,NT,PE,V	764	0.018					PEM	n/a	n/a	VII				
7	EX,NT,PE,V	6,079	0.140					PSS	n/a	n/a	VII				
8	EX,NT,PE,V	1,734	0.040					PFO	n/a	n/a	VII				
9	EX, NT,PE, IN	·		1352	8	10816		R4	<5	<5	III				
Total		29,027	0.67	1490		11092	0.00								

^{*} Use all that apply: F-fill, EX-excavation, S-Structure, T-tidal, NT-non-tidal, TE-temporary, PE-permanent, PR-perennial, IN-intermittent, EP-ephemeral, SB-subaqueous bottom, DB-Dune/Beach, IS-hydrologically isolated, V-vegetated, NV-non-vegetated, MC-mechanized clearing of PFO

Curles Neck proposes to provide compensation for unavoidable impacts through the purchase of off-site mitigation credits from a Wetland and Stream Mitigation Bank, which is approved for use in the Lower James Watershed (Hydrologic Unit Code 02080206). Wetland mitigation credits will be purchased using the Standard Compensatory Mitigation Ratios at ratios of 1:1 (0.474 credits) for PEM wetland impacts, 1.5:1 for PSS wetlands (0.21 credits), and 2:1 for PFO wetlands (0.106 credits). This equates to a total wetland compensatory mitigation obligation of 0.79 wetland credits. Stream credits will be purchased based on application of the Unified Stream Methodology (USM) Stream Assessment, where the compensation requirement was determined to be 1,361. The purchase of stream and wetland credits will ensure there will be no net loss of aquatic resource function and value as a result of the proposed project, while also ensuring the protection of avoided onsite resources with the additional benefit of protecting downstream water quality.

- **Fisheries Management** The project area is within a private property owned by the applicant and therefore does not support an active commercial fishing industry or public recreational fishing activities. Stormwater management on-site will protect downstream fisheries from degradation. Groundwater and stormwater will be monitored in accordance with the mines DMME permit administered by the Virginia Department of Mineral Mining and Energy. Therefore, the project should have no affect for shellfish and other aquatic species.
- Subaqueous Lands Management Although the property is bounded by the James River, no subaqueous land is located within the Project limits. The development of the Project will not result in the destruction of subaqueous lands.

- Dunes Management Based on the inspection of the attached USGS Vicinity Map and past site inspections, there are no sand dunes located on or near the Project. Development of the Project will not result in the destruction or alteration of any sand dunes.
- Point Source Air Pollution The proposed mine should not have any impact on the air quality and open burning will not be necessary for the proposed project. Even though air quality should not be compromised by the proposed project, all activities will be conducted in accordance with regulations for ambient air standards (9VAC 5-30), hazardous air pollution sources (9VAC 5-60), abatement of visible and fugitive dust emissions (9VAC 5-50-60) and open burning (9VAC 5-130 & 9VAC 5-40-5600). During the quarry operations, fugitive dust will be kept to a minimum with the implementation of typical dust suppression techniques. Therefore, no adverse impact is anticipated.
- Point Source Water Pollution All stormwater runoff will be treated prior to discharge
 off-site in accordance with an approved Stormwater Management Plan and Virginia
 Pollution Discharge Elimination System permit (if required). The proposed project will
 improve water quality and reduce both non-point and point source pollution by treating and
 monitoring stormwater and groundwater on-site in accordance with the VDMME permit
 administered by the Virginia Department of Mineral Mining and Energy.
- Non-point Source Water Pollution The proposed project is required to include an Erosion and Sediment Control (E&S) Plan that meets the latest State regulations and adheres to the methodology prescribed in the *Virginia Erosion and Sediment Control Handbook* (Third Edition, 1992) published by the Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation. Stormwater management on-site will protect downstream fisheries from degradation. Groundwater and stormwater will be monitored in accordance with the quarries DMME permit administered by the Virginia Department of Mineral Mining and Energy. Therefore, the project should have no affect for shellfish and other aquatic species.
- **Shoreline Sanitation** No septic systems or drainfields are proposed for the Project; therefore, the development of the Project will not result in a potential risk to shoreline sanitation.
- Coastal Lands Management The Virginia Department of Environmenta1 Quality (VDEQ) administers the Virginia Coastal Zone Management Program, commonly referred to as the Virginia Coastal Program (VCP), to protect and manage Virginia's coastal zone from the shoreline to as far as 100 miles inland on the four tidal rivers of Virginia (the Potomac, Rappahannock, James, and York Rivers). Henrico County is a member of Virginia's coastal community due to its location within the Coastal Zone Management Area. The proposed project will be constructed in accordance with the Chesapeake Bay Preservation Act (CBPA) and Henrico County Ordinance. All Resource Protection Areas will be identified on construction plans. Therefore, no adverse impacts are anticipated. Therefore, proposed projects located in the County are required to be consistent with the VCP.

The proposed project will be constructed in accordance with the Chesapeake Bay Preservation Act (CBPA) and Henrico County Ordinance. Resource scientists have

assessed the stream reaches that are located within the project area. These streams are depicted on the attached figures. The only stream subject to the RPA is James River. Henrico County has confirmed the resource determinations. Prior to any land disturbance activities within the project area, Curles Neck will submit construction plans that depict Henrico County's final decision regarding RPA boundaries to the County and VDCR for approval. Therefore, we anticipate no adverse impacts to the RPA.

 T&E Species – An Endangered Species Project Review was conducted to gain insight regarding the potential presence of Endangered Species Act (ESA) listed species within or in the vicinity of the Project.

Based on the results of the IPaC review, the following species have the potential to be present within the project area:

- Sensitive joint-vetch (*Aeschynomene virginica*)
- Northern Long Eared Bat (*Myotis septentrionalis*)

Sensitive joint-vetch is most commonly found in the intertidal zone of coastal marshes, where plants are subject to tidal flooding twice each day. There are no tidal marshes within the subject property, nor is any work proposed along the James River. Because the site lacks suitable habitat, we do not believe that the proposed project will negatively affect populations of sensitive joint-vetch.

Based upon a review of available information, in particular the VDGIF NLEB Winter Habitat and Roost Tree Locator, there are no known maternity roosts or hibernacula located within or in close proximity to the Project. Therefore, the Project will not affect any known NLEB occupied areas. The Project will result in approximately 12 acres of forest conversion for lot development and infrastructure construction.

The Applicant be will relying upon the findings of the January 5, 2016 Programmatic Biological Opinion for the Final 4(d) Rule on the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions to fulfill the project-specific Section 7 responsibilities. The Applicant will not implement voluntary conservation measures.

The Project Area is not within 660 feet of a bald eagle nest however; the site does intersect with an eagle concentration area along the western property line. Based on the limits of disturbance, we do not believe that there will be an adverse effect on the Bald Eagle.

There is no Critical Habitat identified on the Property.

By this certification that the Project is consistent with the Virginia Coastal Zone Management Program, Virginia is notified that it has six months from the receipt of this letter and accompanying information in which to concur with or object to Curles Neck Properties, LLC certification. Pursuant to 15 CFR Section 930.63(b), if Virginia has not issued a decision within three months following commencement of State agency review, it shall notify Curles Neck Properties, LLC, and the federal agency of the status of the matter and the basis for further delay.

The State's concurrence, objection, or notification of review status shall be sent to:

Curles Neck Properties, L.L.C. ATTN: Mr. Jerry Cable 701 East Byrd Street Richmond, Virginia 23219

with a copy sent to:

Todd Preuninger Timmons Group 1001 Boulders Parkway, Suite 300 Richmond, VA 23325

If you should have any questions, comments, or require additional information, please contact Todd Preuninger at (804) 200-6399 or John Brooks at (804) 200-6458. Thank you for your attention to this project.

Sincerely,

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TIMMONS GROUP

Todd Preuninger

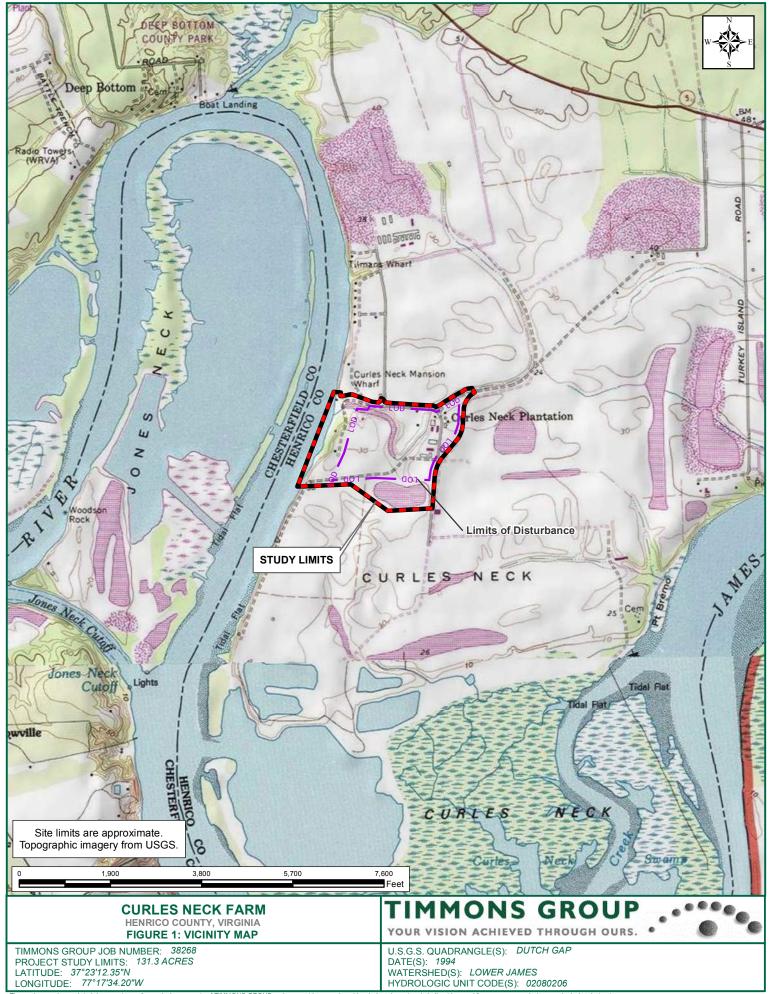
Senior Environmental Scientist

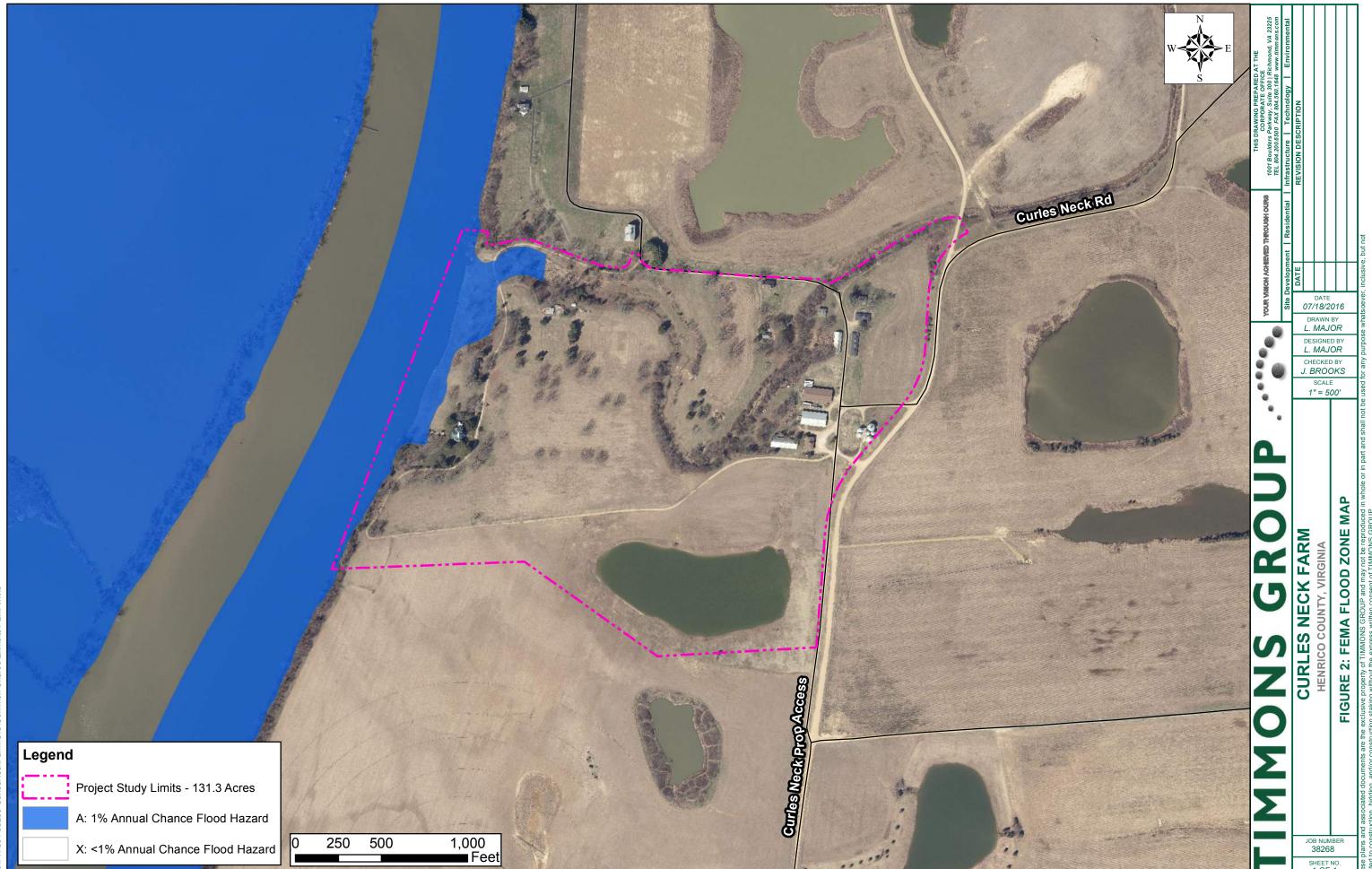
John Brooks

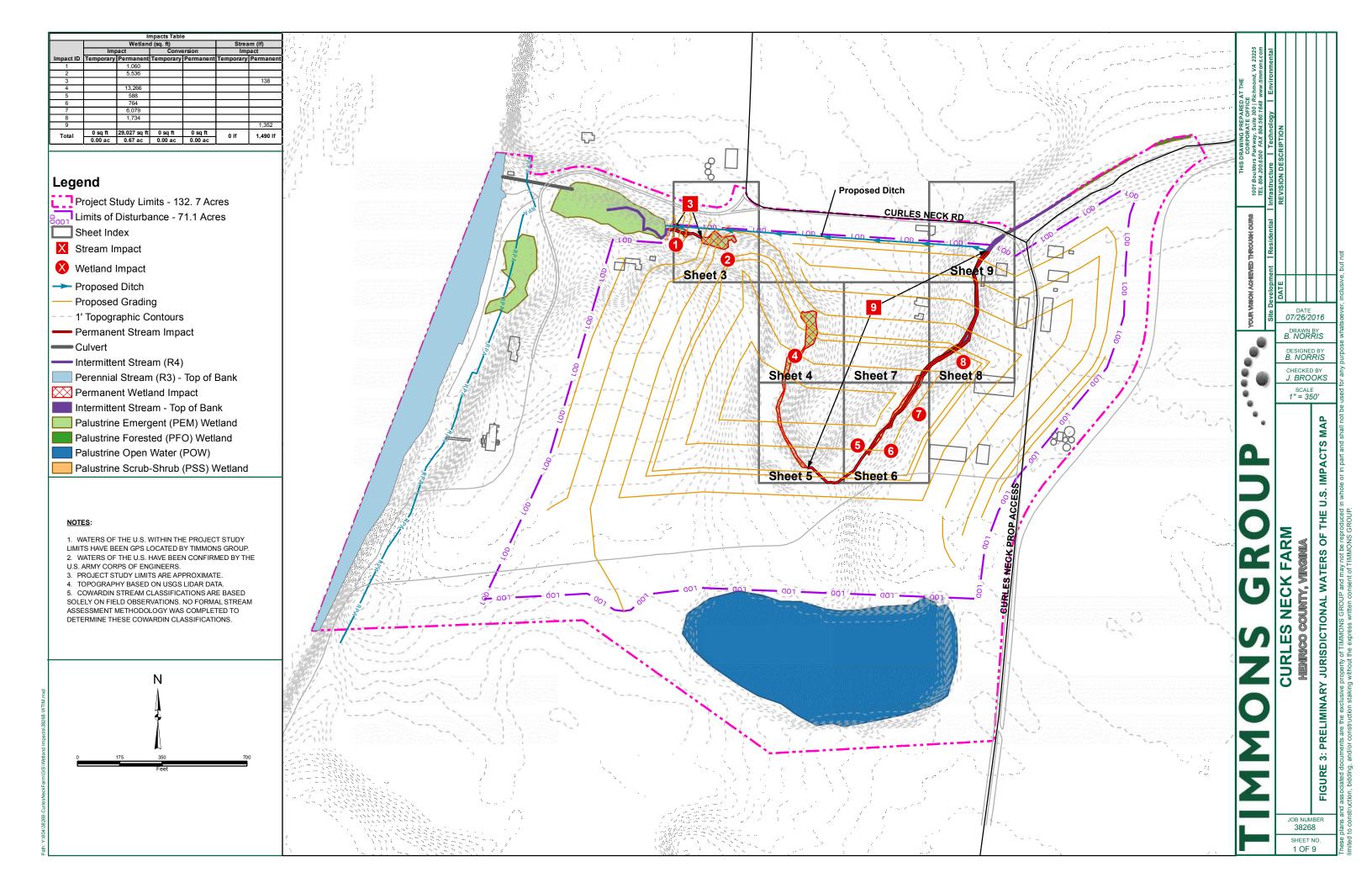
\$r. Environmental Project Manager

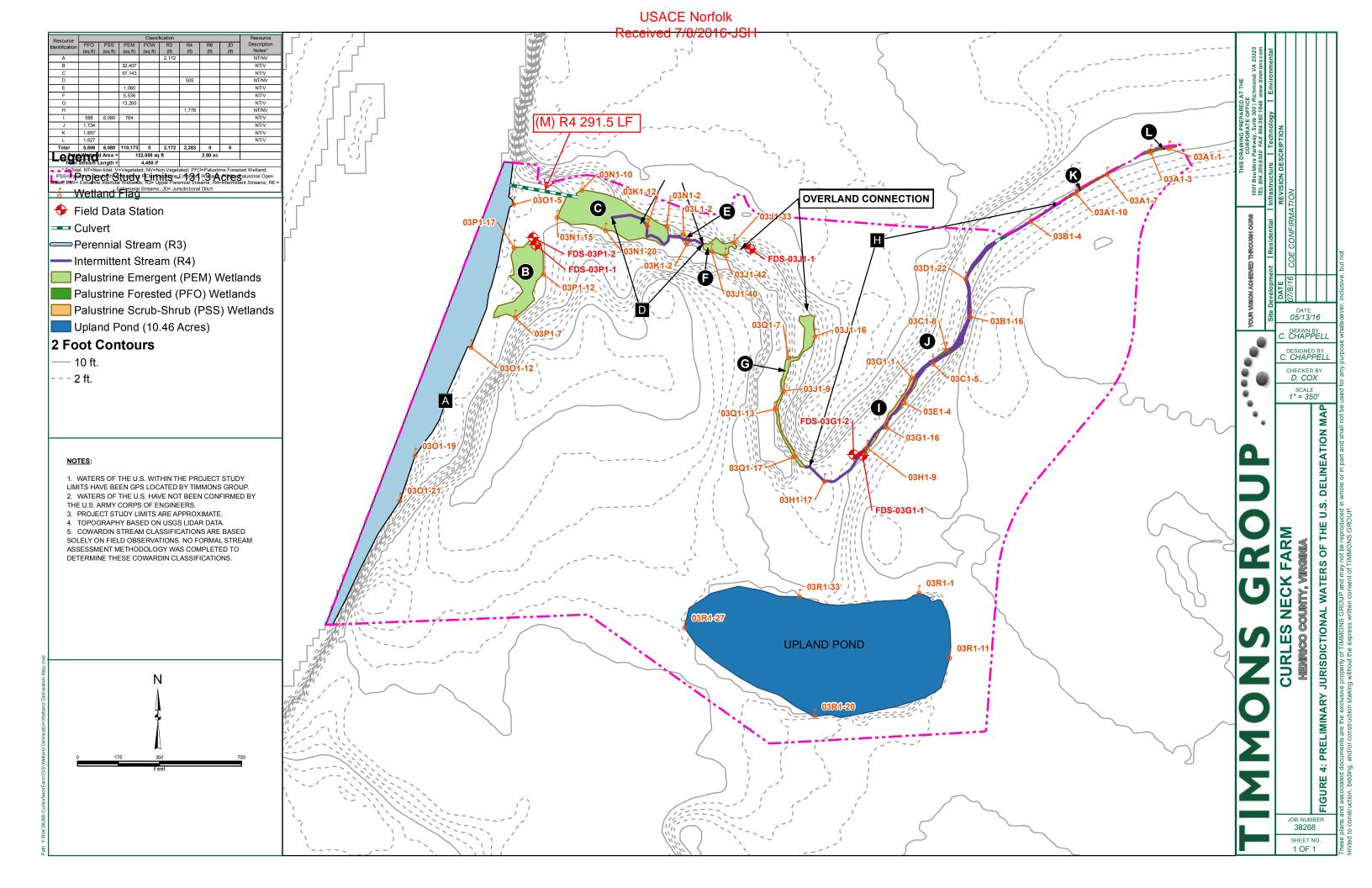
Attachments

- 1) Site Location and Topography Map
- 2) Existing Conditions Map
- 3) Survey Limits of Waters of the U.S. Map
- 4) Jurisdictional Waters of the U.S. Impacts Map
- 5) FEMA Map
- 6) Supporting documents for Threatened and Endangered Species database review











COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

August 4, 2016

Mr. Daniel Cox Environmental Scientist II Timmons Group 1001 Boulders Parkway, Suite 300 Richmond, Virginia 23225

Re: Perennial Stream Assessment

Curles Neck Farm

Dear Mr. Cox:

In response to your request, I have reviewed the Field Data form and Perennial Stream Assessment Map you submitted for this project and performed an onsite visit. I agree with your findings that this reach of stream channel is intermittent. If the drainage area for this channel is greater than 100-acres a 50-foot SPA buffer will be required. If you have any questions regarding these findings, please call me at 727-8325.

Sincerely,

Robin V. Wilder

Water Quality Research Analyst





DEPARTMENT OF THE ARMY US ARMY CORPS OF ENGINEERS NORFOLK DISTRICT

FORT NORFOLK 803 FRONT STREET NORFOLK VA 23510-1011

July 19, 2016

PRELIMINARY JURISDICTIONAL DETERMINATION

Southern Virginia Regulatory Section NAO-2016-1228 (James River)

Mr. Jerry Cable 1201 E. Cary Street Richmond, Virginia 23233

Dear Mr. Cable:

This letter is in regard to your request for a preliminary jurisdictional determination for waters of the U.S. (including wetlands) on property known as Curles Neck Farm, located on a 131.3 acre parcel off SR 5 and Curles Neck Farm Drive, in Henrico County, Virginia.

The map entitled "Curles Neck Farm", by Timmons Group dated July 8, 2016 and Corps date stamped as received July 8, 2016 (copy enclosed) provides the location(s) of waters and/or wetlands on the property listed above. The basis for this delineation includes application of the Corps' 1987 Wetland Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region and the positive indicators of wetland hydrology, hydric soils, and hydrophytic vegetation and the presence of an ordinary high water mark.

Discharges of dredged or fill material, including those associated with mechanized landclearing, into waters and/or wetlands on this site may require a Department of the Army permit and authorization by state and local authorities including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC) and/or a permit from your local wetlands board. This letter is a confirmation of the Corps preliminary jurisdiction for the waters and/or wetlands on the subject property and does not authorize any work in these areas. Please obtain all required permits before starting work in the delineated waters/wetland areas.

This is a preliminary jurisdictional determination and is therefore not a legally binding determination regarding whether Corps jurisdiction applies to the waters or wetlands in question. Accordingly, you may either consent to jurisdiction as set out in this preliminary jurisdictional determination and the attachments hereto if you agree with the determination, or you may request and obtain an approved jurisdictional determination.

Enclosed is a copy of the "Preliminary Jurisdictional Determination Form". Please review the document, sign, and return one copy to Ms. Julie S. Hamilton, either via

email (julie.s.hamilton@usace.army.mil) or via standard mail to US Army Corps of Engineers, Regulatory Office, and ATTN: Julie Hamilton, 9100 Arboretum Parkway, Suite 235, Richmond, Virginia, 23236 within 30 days of receipt and keep one for your records. This delineation of waters and/or wetlands is valid for a period of five years from the date of this letter unless new information warrants revision prior to the expiration date.

Copies of this letter have been provided to the Virginia Department of Environmental Quality, Henrico County Department of Public Works and Timmons Group. If you have any questions, please contact the office either via telephone at (804) 323-3783 or via email at julie.s.hamilton@usace.army.mil

Sincerely,

Julie S. Hamilton Environmental Scientist Southern Virginia Regulatory Section

Enclosure(s)

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION:

Α.	REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): Tuesday, July 19, 2016
B.	NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD: Mr. Dan Cox Timmons Group
C.	DISTRICT OFFICE: Norfolk District (CENAO-REG)
	FILE NAME: Curles Neck Farm-Jerry Cable
	FILE NUMBER: NAO-2016-1228
D.	PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)
	State: VIRGINIA County/parish/borough: Henrico City:
	Center coordinates of site (lat/long in degree decimal format):
	Latitude: 37.3879 ° N Longitude: -77.2921 ° W
	Universal Transverse Mercator:
	Name of nearest waterbody: James River
	Identify (estimate) amount of waters in the review area:
	Non-wetland waters: linear feet; width (ft); and/or acres.
	Cowardin Class:
	Stream Flow:
	Wetlands: acres
	Cowardin Class:
	Name of any water bodies on the site that have been identified as Section 10 waters:
	Tidal:
	Non-Tidal:
E.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: Field Determination. Date(s): July 6, 2016

- 1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
- 2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.
- 3. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA:

Data reviewed for preliminary JD (check all that apply) - checked items should be included in case file and, where checked and requested, appropriately reference sources below.

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:

Date	Date
2016-07-19	
Regulatory Project Manager (REQUIRED)	Preliminary JD (REQUIRED, unless obtaining the signature is impracticable)
Signature	Signature of person requesting
verified by the Corps and should not be relideterminations.	eu upon noi nater jurisultational
IMPORTANT NOTE: The information record	
Other information (please specify):	
File no. and date of response	onse letter:
☐ Previous determination(s):	
or	:
	:
	(National Geodetic Vertical Datum of 1929)
☐ FEMA/FIRM maps:	
☐ State/Local wetland inventory map(s):	
☐ National wetlands inventory map(s). Cit	e name:
Citation:	
	Service Soil Survey.
☑ U.S. Geological Survey map(s). Cite sca	ale & quad name:
USGS 8 and 12 digit HUC maps.	
USGS NHD data.	
U.S. Geological Survey Hydrologic Atlas	S:
Corps navigable waters' study:	
☐ Data sheets prepared by the Corps:	·
Office does not concur with data she	·
	n behalt of the applicant/consultant.



DEPARTMENT OF THE ARMY US ARMY CORPS OF ENGINEERS NORFOLK DISTRICT FORT NORFOLK

803 FRONT STREET NORFOLK VA 23510-1011

July 19, 2016 Supplemental Preapplication Information

Project Number: NAO-2016-1228 Applicant: Mr. Jerry Cable

Project Location: Curles Neck Farm and James River, Henrico County, Virginia

	,,,,,	
1.	search of the Virginia Department of Historic Resources data revealed the following:	
	No known historic properties are located on the property.	
	The following known architectural resources are located on the property: 043-0035-Cu arm, 043-056-Bacon Farm Site, 043-5074-Deep Bottom Battlefield, 043-5050-Bailey's Crattlefield	
	The following known archaeological resources are located on the property: 44HE04534HE0635, 44HE0645, 44HE0634, 44HE0633, 44HE0632	,
VO:	The following known historic resources are located in the vicinity of the property (potentificates to these resources from future development):	itial for
••	The information above is for planning purposes only. In most cases, the property has not been surveyed for historic resources. Undiscovered historic resources may be located on the subject property or adjacent properties and this supplemental information is not intended to satisfy the Corps' requirements under Section 106 of the National Historic Preservation Act (NHPA).	
	Prospective permittees should be aware that Section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having le power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advis Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant.	egal
2.	search of the data supplied by the U.S. Fish & Wildlife Service, the Virginia Department conservation and Recreation and the Virginia Department of Game and Inland Fisheries evealed the following:	of
	No known populations of threatened or endangered species are located on or within the vicinity of the subject property.	е
	The following federally-listed species may occur within the vicinity of the subject property: Northern long-eared bat, Sensitive joint vetch	
	The following state-listed (or other) species may occur within the vicinity of the subject property: Clemmys guttata, spotted turtle, Anadromous Fish Use Area	

Please note this information is being provided to you based on the preliminary data you submitted to the Corps relative to project boundaries and project plans. Consequently, these findings and recommendations are subject to change if the project scope changes or new information becomes available and the accuracy of the data.

******Bald Eagle Concentration Area Summer and Winter****



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Ecological Services Field Office 6669 SHORT LANE GLOUCESTER, VA 23061

PHONE: (804)693-6694 FAX: (804)693-9032 URL: www.fws.gov/northeast/virginiafield/



July 05, 2016

Consultation Code: 05E2VA00-2016-SLI-3316

Event Code: 05E2VA00-2016-E-03928

Project Name: Curles Neck Farm

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and

endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and

http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



Official Species List

Provided by:

Virginia Ecological Services Field Office 6669 SHORT LANE GLOUCESTER, VA 23061 (804) 693-6694_ http://www.fws.gov/northeast/virginiafield/

Consultation Code: 05E2VA00-2016-SLI-3316

Event Code: 05E2VA00-2016-E-03928

Project Type: MINING

Project Name: Curles Neck Farm

Project Description: The proposed project is located in Henrico County, VA. The Site is bound by the James River to the west, Curles Neck Road to the north and east, and agricultural fields to the south. The project consist of sand and gravel extraction.

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.





United States Department of Interior Fish and Wildlife Service

Project name: Curles Neck Farm

Project Location Map:



Project Coordinates: The coordinates are too numerous to display here.

Project Counties: Henrico, VA



Endangered Species Act Species List

There are a total of 2 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Flowering Plants	Status	Has Critical Habitat	Condition(s)							
sensitive joint-vetch (Aeschynomene virginica)	Threatened									
Mammals										
Northern long-eared Bat (Myotis septentrionalis)	Threatened									



Critical habitats that lie within your project area

There are no critical habitats within your project area.



Appendix A: FWS National Wildlife Refuges and Fish Hatcheries

There are no refuges or fish hatcheries within your project area.

Natural Heritage Resources

Your Criteria

Watershed (8 digit HUC): 02080206 - Lower James River

Subwatershed (12 digit HUC): JL06 - James River-Curles Creek

Search Run: 7/5/2016 13:12:29 PM

Result Summary

Total Species returned: 5

Total Communities returned: 0

Click scientific names below to go to NatureServe report.

Click column headings for an explanation of species and community ranks.

Common Name/Natura Community		Global Conservation Status Rank	State Conservation Status Rank	Federal Legal Status	State Legal Status	Statewide Occurrences	Virginia Coastal Zone
Lower Jam							
James River-	Curles Creek						
BIRDS							
Northern	<u>Circus</u>	G5	S1S2B,S3N	None	None	15	Υ
Harrier	<u>cyaneus</u>						
Common	<u>Gallinula</u>	G5	S1B,S1N	None	None	2	Υ
Gallinule	<u>galeata</u>						

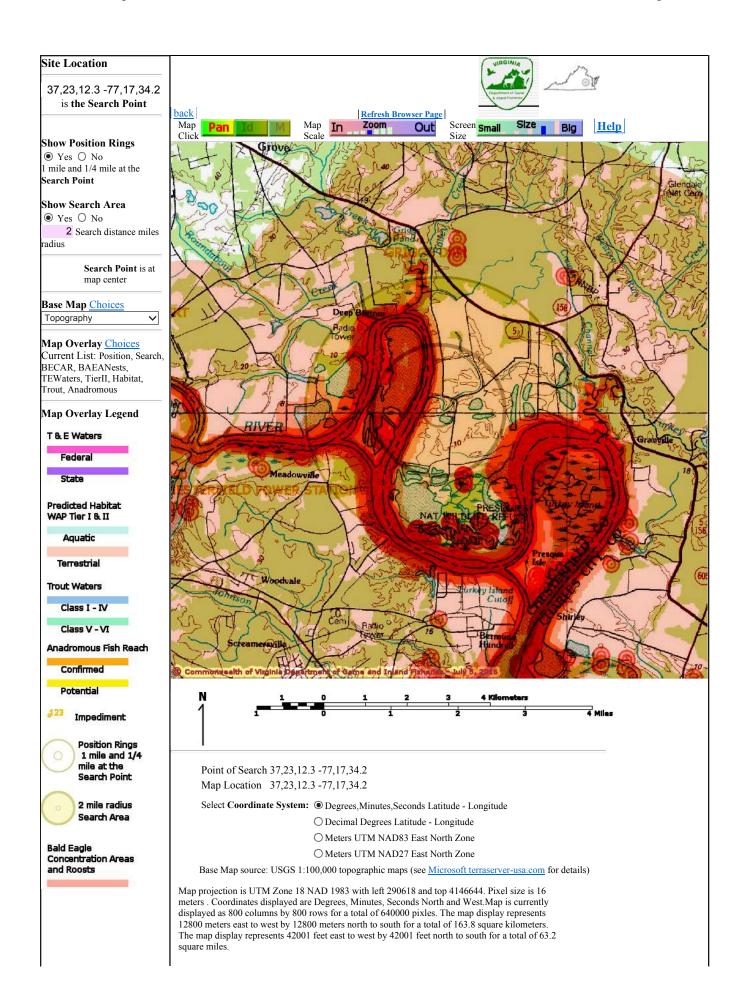
Common	Scientific	Global	<u>State</u>	Federal Legal	State Legal	Statewide	Virginia
Name/Natural	Name	Conservation	Conservation	<u>Status</u>	<u>Status</u>	Occurrences	Coastal Zone
Community		Status Rank	Status Rank				
CRUSTACEA	(AMPHIPODS,	ISOPODS & D	ECAPODS)				
Ohio River	<u>Macrobrachiu</u>	G4	S1	None	None	1	Υ
Shrimp	m ohione						
FISH							
Atlantic	<u>Acipenser</u>	G3	S2	LE	LE	2	Υ
Sturgeon	<u>oxyrinchus</u>						
VASCULAR P	LANTS						
Sensitive	<u>Aeschynome</u>	G2	S2	LT	LT	22	Υ
Joint-vetch	ne virginica						

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

For Additional Information on locations of Natural Heritage Resources please submit an information request.

To Contribute information on locations of natural heritage resources, please fill out and submit a <u>rare species sighting form</u>.

VaFWIS Map Page 1 of 2



VaFWIS Map Page 2 of 2

> Topographic maps and Black and white aerial photography for year 1990+are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic http://www.national.geographic.com/topo
> All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

 $map\ assembled\ 2016-07-05\ 13:28:23 \qquad (qa/qc\ March\ 21,\ 2016\ 12:20\ -\ tn=747842.0$ dist=3218.688 I) \$poi=37.3867500 -77.2928333

| <u>DGIF</u>| <u>Credits</u> | <u>Disclaimer</u> | Contact <u>shirl.dressler@dgif.virginia.gov</u> |Please view our <u>privacy policy</u> | © 1998- 2016 Commonwealth of Virginia Department of Game and Inland Fisheries

VaFWIS Initial Project Assessment Report Compiled on 7/5/2016, 1:30:34 PM

Help

Known or likely to occur within a 2 mile radius around point 37.3867500 -77.2928333 in 041 Chesterfield County, 087 Henrico County, VA

View Map of Site Location

520 Known or Likely Species ordered by Status Concern for Conservation (displaying first 29) (29 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	<u>Tier**</u>	<u>Common</u> <u>Name</u>	Scientific Name	Confirmed	Database(s)
060017	FESE	I	Spinymussel, James	Pleurobema collina		BOVA
010032	FESE	II	Sturgeon, Atlantic	Acipenser oxyrinchus		BOVA
060003	FESE	II	Wedgemussel, dwarf	Alasmidonta heterodon		BOVA
050022	FTST		Bat, northern long-eared	Myotis septentrionalis		BOVA
050020	SE		Bat, little brown	Myotis lucifugus lucifugus		BOVA
050027	SE		Bat, tri- colored	Perimyotis subflavus		BOVA
040096	ST	I	Falcon, peregrine	Falco peregrinus		BOVA
040293	ST	I	Shrike, loggerhead	Lanius ludovicianus		BOVA
020002	ST	II	<u>Treefrog,</u> <u>barking</u>	Hyla gratiosa		BOVA
060173	FSST	II	Pigtoe, Atlantic	Fusconaia masoni		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
040093	FS	II	Eagle, bald	Haliaeetus leucocephalus	Yes	BOVA,BECAR,Habitat,BAEANests
060029	FS	III	<u>Lance,</u> <u>yellow</u>	Elliptio lanceolata		BOVA
010038	FS	IV	Herring, alewife	Alosa pseudoharengus	Yes	BOVA,SppObs
100001	FS	IV	fritillary, Diana	Speyeria diana		BOVA
010045	FS			Alosa aestivalis	Yes	BOVA,SppObs

			Herring, blueback			
030063	CC	III	Turtle, spotted	Clemmys guttata	Yes	BOVA,SppObs
010077		I	Shiner, bridle	Notropis bifrenatus		BOVA
040129		I	<u>Sandpiper,</u> <u>upland</u>	Bartramia longicauda		BOVA
040225		I	Sapsucker, yellow- bellied	Sphyrapicus varius		BOVA
040319		I	Warbler, black-throated green	Setophaga virens		BOVA
060084		I	<u>Pigtoe,</u> <u>Virginia</u>	Lexingtonia subplana		BOVA
040052		II	Duck, American black	Anas rubripes		BOVA
040029		II	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		II	Night-heron, yellow- crowned	Nyctanassa violacea violacea		BOVA
040213		II	Owl, northern saw-whet	Aegolius acadicus		BOVA
040105		II	Rail, king	Rallus elegans		BOVA,Habitat
040320		II	Warbler, cerulean	Setophaga cerulea		BOVA
040266		II	Wren, winter	Troglodytes troglodytes		BOVA

To view All 520 species View 520

* FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FC=Federal Candidate; FS=Federal Species of Concern; CC=Collection Concern

** I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

View Map of All Query Results from All Observation Tables

Bat Colonies or Hibernacula: Not Known

Anadromous Fish Use Streams (2 records)

View Map of All Anadromous Fish Use Streams

C24

C92

Impediments to Fish Passage

N/A

Colonial Water Bird Survey (1 records)

View Map of All Query Results Colonial Water Bird Survey

	NA	T D .			Х/: М	
Colony_Name	N Obs		Different Species	Highest TE*	Highest Tier**	View Map
Curles Neck Swamp	4	May 3 2003	2			<u>Yes</u>

Displayed 1 Colonial Water Bird Survey

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

are present. View Map of Bald Eagle Concentration Areas and Roosts

(7 records)

BECAR ID	Observation Year	Authority	Туре	Comments	View Map
7		Bryan Watts (Center for Conservation Biology)	Roost	Count 100	Yes
44	2009	Jeannette Parker (VDGIF)	Roost	Count 9	<u>Yes</u>
46	2009	Jeannette Parker (VDGIF)	Roost	Count 12	<u>Yes</u>
47	2006 - 2007	Center for Conservation Biology at the College of William and Mary/Virginia Commonwealth University	Summer Concentration Area	Eagle_use High	Yes
49	2006 - 2007	Center for Conservation Biology at the College of William and Mary/Virginia Commonwealth University	Summer Concentration Area	Eagle_use Moderate	Yes

50	2006 - 2007	Center for Conservation Biology at the College of William and Mary/Virginia Commonwealth University	Winter Concentration Area	Eagle_use High	Yes
52	2006 - 2007	Center for Conservation Biology at the College of William and Mary/Virginia Commonwealth University	Winter Concentration	Eagle_use Moderate	Yes

Bald Eagle Nests (13 records)

View Map of All Query Results Bald Eagle Nests

Nest	N Obs	Latest Date	DGIF Nest Status	View Map
CD0402	15	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
CD0403	15	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
CD0701	2	Mar 2 2011	RECENTLY ACTIVE	<u>Yes</u>
CD9802	24	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
HE0301	16	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
HE0401	5	Apr 26 2006	HISTORIC	<u>Yes</u>
HE0601	13	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
HE0602	13	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
HE0603	7	Apr 23 2008	UNKNOWN	<u>Yes</u>
HE0604	13	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
HE0901	6	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
HE1001	4	Apr 18 2011	RECENTLY ACTIVE	<u>Yes</u>
HE9901	12	Apr 26 2006	HISTORIC	<u>Yes</u>

Displayed 13 Bald Eagle Nests

Habitat Predicted for Aquatic WAP Tier I & II Species

N/A

Habitat Predicted for Terrestrial WAP Tier I & II Species (2 Species)

<u>View Map of Combined Terrestrial Habitat Predicted for 2 WAP Tier I & II Species Listed Below</u> ordered by Status Concern for Conservation

BOVA Code	Status*	Tier**	Common Name	Scientific Name	View Map
040093	FS	II	Eagle, bald	Haliaeetus leucocephalus	Yes
040105		II	Rail, king	Rallus elegans	Yes

Public Holdings: (1 names)

Name	Agency	Level
Presquile National Wildlife Refuge	U.S. Fish and Wildlife Service	Federal

 $PixelSize=64; Anadromous=0.024995; BECAR=0.027776; Bats=0.014175; Buffer=0.10307; County=0.087522; Impediments=0.016157; Init=0.167775; PublicLands=0.034243; SppObs=0.403441; TEWaters=0.019728; TierReaches=0.044497; TierTerrestrial=0.057851; Total=1.094715; Tracking_BOVA=0.155492; Trout=0.019159$



CCB Mapping Portal



Layers: Eagle Roost Polygons, VA Eagle Nest Locator, VA Eagle Nest Buffers, Eagle Roosts, Eagle Roost Buffers

Map Center [longitude, latitude]: [-77.2822093963623, 37.39102724317506]

Map Link:

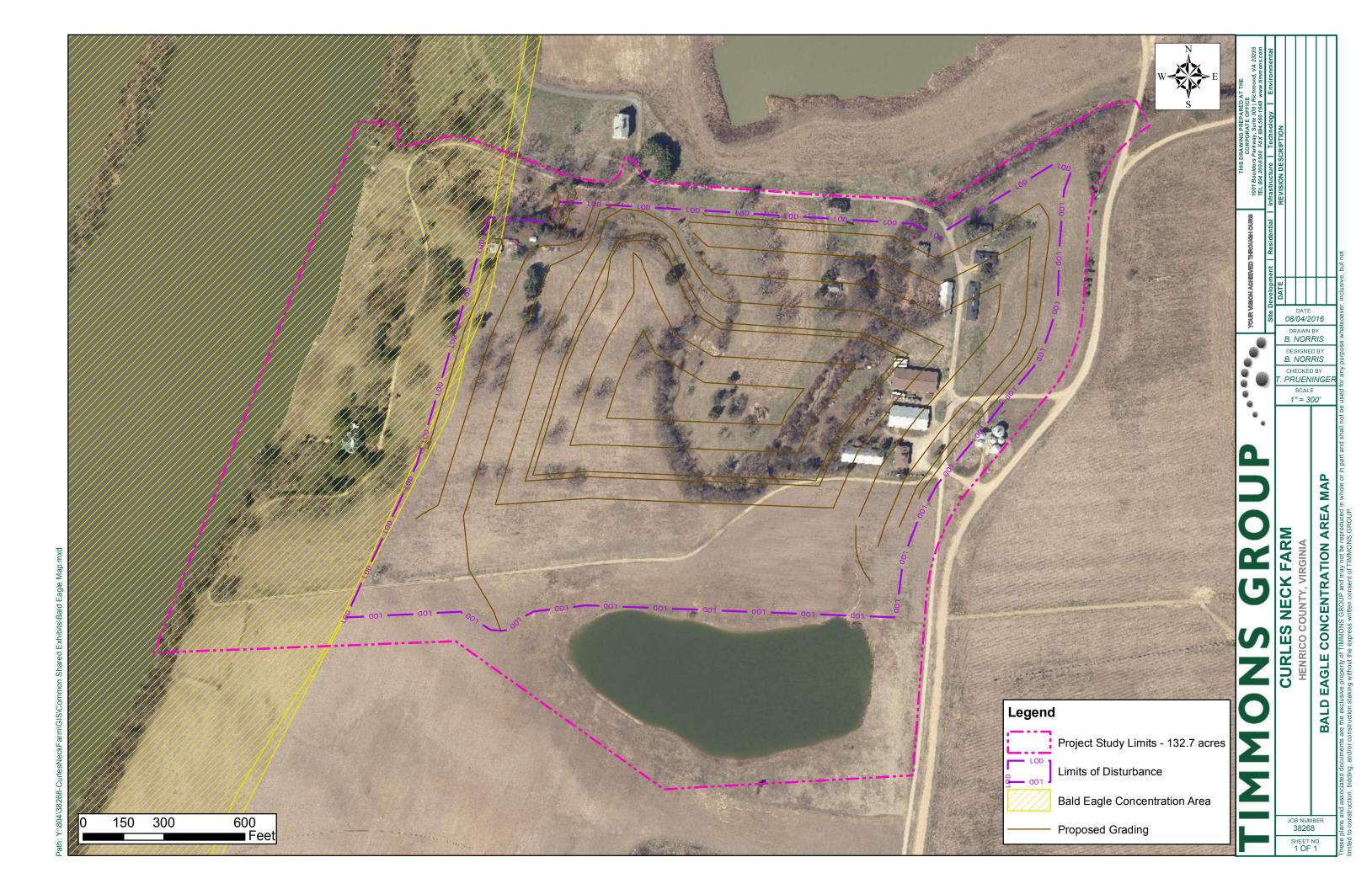
 $\label{location} $$ $ \frac{\text{http://www.ccbbirds.org/maps/\#layer=Eagle+Roost+Polygons\&layer=VA+Eagle+Nest+Locator\&layer=VA+Eagle+Nest+Buffers\&layer=Eagle+Roost+Buffers\&zoom=14\&lat=37.39102724317506\&lng=-77.2822093963623&legend=legend_tab_59557df6-c07b-11e5-a-85-0e31c9be1b51\&base=Street+Map+%28MapQuest%29$

Report Generated On: 07/05/2016

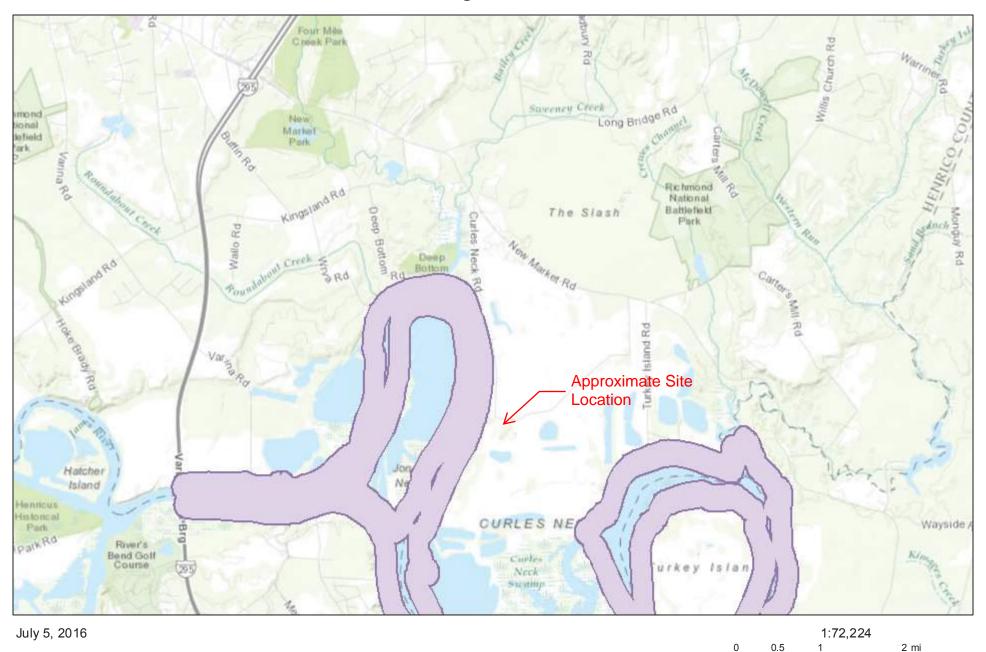
The Center for Conservation Biology (CCB) provides certain data online as a free service to the public and the regulatory sector. CCB encourages the use of its data sets in wildlife conservation and management applications. These data are protected by intellectual property laws. All users are reminded to view the <u>Data Use Agreement</u> to ensure compliance with our data use policies. For additional data access questions, view our <u>Data Distribution Policy</u>, or contact our Data Manager, Marie Pitts, at mlpitts@wm.edu or 757-221-7503.

Report generated by <u>The Center for Conservation Biology Mapping Portal</u>.

To learn more about CCB visit ccbbirds.org or contact us at info@ccbbirds.org



Curles Neck - Eagle Concentration Area



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

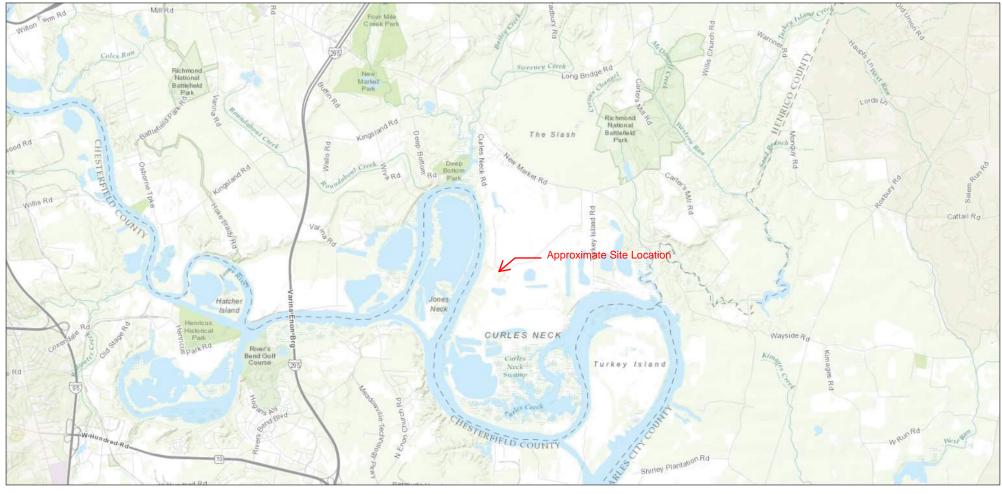
4 km

Curles Neck_MYLU PESU Habitat 07052016

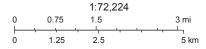


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

NLEB Locations and Roost Trees_07052016



July 5, 2016



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community